IN THE CLAIMS

This listing of claims replaces all prior listings and versions of the claims in the present application.

Listing of Claims:

Claim 1 (Currently Amended): Method for monitoring an oil and gas lubricating device[[(1)]], with which an oil film, while forming striae, can be conveyed by an airflow along a wall of a supply line[[(4)]] to a lubrication point[[(2)]], comprising the following process steps:

- [[-]] detecting [[the]] <u>a</u> temporal change in the striae[[(12)]] by a striae sensor[[(14)]];
- [[-]] generating a striae signal that is representative for the temporal change in the striae[[(12)]]; and

characterised by the following process step:

[[-]] Smoothening of smoothening the striae signal by calculating an average value of the striae signal over a predetermined averaging interval.

Claim 2 (Currently Amended): Method according to Claim 1, characterised by the following process steps which further comprises:

- [[-]] comparing the smoothened striae signal with a predetermined operating limit, which is representative for an oil film that is sufficient for lubrication point lubrication appropriate for operation; and
- [[-]] Outputting outputting an operating signal if the smoothened striae signal exceeds the operating limit.

- Claim 3 (Currently Amended): Method according to Claim 1 or 2, characterised by the following process step which further comprises:
- [[-]] Outputting outputting a warning signal if the smoothened striae signal falls below the operating limit.
- Claim 4 (Currently Amended): Method according to one of the abovementioned Claims Claim 1, characterised by the following process steps which further comprises:
- [[-]] comparing the smoothened striae signal with a predetermined warning limit, which is representative for an oil film that is not sufficient for lubrication point lubrication appropriate for operation;
- [[-]] outputting the warning signal if the smoothened striae signal falls below the warning limit.
- Claim 5 (Currently Amended): Method according to one of the abovementioned Claims Claim 1, characterised by the following process step which further comprises:
- [[-]] Reading reading out the operating and / or warning limit from a memory unit[[(30)]].
- Claim 6 (Currently Amended): Method according to one of the abovementioned Claims Claim 1, characterised by the following process steps which further comprises:
- [[-]] specifying the operating and / or warning limit depending on a normalization signal;
- [[-]] specifying the smoothed striae signal as an operating and / or warning limit when the normalization signal is applied.

Claim 7 (Currently Amended): Method according to <u>Claim 1</u> one of the abovementioned <u>Claims</u>, characterised by the following process steps which further <u>comprises</u>:

[[-]] specifying the operating or warning limit as a percentage or absolute deviation of the respective other limit.

Claim 8 (Currently Amended): Method according to one of the abovementioned Claims Claim 1, characterised by the following process steps which further comprises:

- [[-]] Automatic <u>automatically</u> shortening [[of]]the averaging interval when the warning signal is being output;
- [[-]] specifying a long time interval and a short time interval <u>for the averaging</u> interval.

Claim 9 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

[[-]] generating the striae signal representative of the temporal change in the striae[[(12)]] using opto-electronic means.

Claim 10 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

- [[-]] measuring the temperature of the oil film;
- [[-]] Saving saving the temperature of the oil film when specifying the operating or warning limit;
- [[-]] Smoothening smoothening the striae signal depending on [[the]] <u>a</u> difference in the temperatures of the saved and measured temperature of the oil film.

Claim 11 (Currently Amended): Method according to Claim 10, characterised by the following process steps which further comprises:

[[-]] Adding adding and subtracting temperature-dependent characteristic values to or from the striae signal during the smoothening of the striae signal.

Claim 12 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

- [[-]] comparing the unsmoothened striae signal with a predetermined malfunction limit that is representative for a striae signal when there is a malfunction in the airflow[[,]] occurs during the smoothening of the striae signal;
- [[-]] outputting the warning signal if the unsmoothened striae signal falls below the malfunction limit.

Claim 13 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

[[-]] Preconditioning preconditioning [[of]] the striae signal before the smoothening of the striae by calculating an average value of the unsmoothened striae signal over a predetermined time interval.

Claim 14 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

[[-]] Preconditioning preconditioning [[of]] the striae signal before the smoothening by removing the constant portion from the unsmoothened striae signal.

Claim 15 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

[[-]] Preconditioning preconditioning of the striae signal before the smoothening by rectifying the unsmoothened striae signal.

Claim 16 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

[[-]] amplifying the striae signal, depending on the preconditioned striae signal, to a predetermined average raw signal value.

Claim 17 (Currently Amended): Method according to Claim 16, characterised by the following process steps which further comprises:

[[-]] compensating the amplification of the raw signal value by attenuating the preconditioned striae signal.

Claim 18 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

- [[-]] detecting a beam of light directed through the striae;
- [[-]] generating the striae signal depending on the beam of light.

Claim 19 (Currently Amended): Method according to one of the aforementioned Claims Claim 1, characterised by the following process steps which further comprises:

[[-]] generating the beam of light[[(15)]] directed through the striae by means of a light source[[(13)]].

Claim 20 (Currently Amended): Method according to Claim 17, characterised by the following process steps which further comprises:

[[-]] calibrating the striae signal by regulating the light intensity of the light source[[(15)]].

Claim 21 (Currently Amended): Method according to Claim 17, characterised by the following process steps which further comprises:

[[-]] calibrating the striae signal by regulating the light intensity of the light source[[(15)]] to a predetermined test intensity.

Claim 22 (Currently Amended): Method according to <u>Claim 1</u> one of the aforementioned <u>Claims</u>, characterised by the following process steps which further <u>comprises</u>:

[[-]]Filtering filtering the raw striae signal by a filter[[(20)]].

Claim 23 (Currently Amended): Monitoring A monitoring device for an oil and gas lubricating device, wherein with the oil and gas lubricating device, an oil film, while forming striae, can be conveyed by an airflow along a wall of a supply line[[(4)]] to a lubrication point[[(2)]], and the monitoring device is provided with a striae sensor[[(14)]], with which the temporal change in the striae[[(12)]] can be detected and a striae signal can be generated that is representative of the temporal change in the striae[[(12)]], characterised by which comprises a smoothening unit[[(28)]], by means of which the striae signal can be is smoothened and an average value of the striae signal over a predetermined averaging interval can be is calculated.

Claim 24 (Currently Amended): Monitoring device according to Claim 23, eharacterised in that wherein the monitoring device includes a memory unit[[(30)]], from which an alterably storable operating and / or warning limit can be read is readable during operation.